Missouri, 6. Montana, 14. Nebraska, 6, 7. Nevada, 26 to 29. Oregon, 16. Rhode Island, 2, 3. South Carolina, 2. South York, 1, 15. North Dakota, 10. Ohio, 2, 15. Oklahoma, 5. Wisconsin, 1, 10, 11.

New Hampshire, 1. New Jersey, 2. New Mexico, 21. New Dakota, 1, 6. Tennessee, 14. Utah, 29. West Virginia, 14.

SUNSHINE AND CLOUDINESS.

The sunshine is now recorded automatically at 18 regular! stations of the Weather Bureau by its photographic, and at 26 by its thermal effects. The results are given in Table XI for each hour of local, not seventy-fifth meridian, time. The cloudiness is determined by numerous personal observations at all stations during the daytime, and is given in the column of "average cloudiness" in Table I; its complement or clear sky is given in the last column of Table XI.

COMPARISON OF SUNSHINE AND CLEAR SKY.

The sunshine registers give the duration of direct sunshine whence the percentage of possible sunshine is derived; the observer's personal estimates give the percentage of area of clear sky. It should not be assumed that these numbers should agree, and for comparative purposes they have been brought together, side by side, in the following table, from which it appears that, in general, the instrumental record of percentages of duration of sunshine is almost always larger than the observer's personal estimates of percentages of area of clear sky; the average excess for April, 1895, is 9 per cent for photographic records, and 12 per cent for thermometric records.

Difference between instrumental and personal observations of sunshine.

Photographic stations.	Instrumental.	Personal.	Difference.	Thermometric stations.	Instrumental.	Personal.	Difference.
Tucson, Ariz. Galveston, Tex. Santa Fe, N. Mex. Santa Fe, N. Mex. Sant Lake City, Utah*. Denver, Colo Dodge City, Kans. Helena, Mont Cincinnati, Ohio. Memphis, Tenn Spokane, Wash Kansas City, Mo. Savannah, Ga. Cleveland, Ohio Portland, Oreg.* San Diego, Cal. Eastport, Me. Washington, D. C. Bismarck, N. Dak.	881 807 888 888 888 888 888 888 888 888 888	81 66 61 55 61 55 51 51 51 45 58 44 51	15 0 14 14 14 67 12 68 12 12 10 88 12 10 88	Key West, Fla. Vicksburg, Miss San Francisco, Cal Salt Lake City, Utah Columbus, Ohio St. Louis, Mo Atlanta, Ga. Norfolk, Va. Baltimore, Md Chicago, Ill. Detroit, Mich Marquette, Mich New Orleans, La Des Moines, Iowa Louisville, Ky Portland, Me Rochester, N. Y Little Rock, Ark Philadelphia, Pa Portland, Oreg.* Buffalo, N. Y Boston, Mass New Haven, Conn New York, N. Y Seattle, Wash Wilmington, N. C	881787877888888888888888888888888888888	878614584595588458485551148844518	14 3 18 14 15 22 20 11 28 12 12 12 12 12 14 4 8 14 - 5

* Records kept by both registers.

WIND.

The prevailing winds for April, 1895, viz, those that were of simultaneous observation; the small figure attached to each recorded most frequently at Weather Bureau stations, are shown in Table I.

Maximum wind velocities of 50 miles or more per hour were reported at regular stations of the Weather Bureau as follows (maximum velocities are averages for five minutes; extreme velocities are gusts of shorter duration, and are not given in this table):

Stations.	Date.	Velocity.	Direction.	Stations.	Date.	Velocity.	Direction.
Abilene, Tex Amarillo, Tex Do Do Do Do Cheyenne, Wyo. Dodge City, Kans Do Do Duluth, Minn Eastport, Me Do El Paso, Tex Do Fort Canby, Wash Do	55 65 15 14 15 54 10 10	Miles 56 84 68 60 54 54 56 64 54 56 67 71 60	nw. nw. nw. nw. nw. nw. nw. nw. ne. e. w. se. se. se. se.	Fort Canby, Wash Do Do Do Hatteras, N.C Huron, S. Dak Do Idaho Falls, Idaho Kittyhawk, N. C Moorhead, Minn Nantucket, Mass New York, N. Y North Platte, Nebr Pierre, S. Dak Rapid City, S. Dak Sioux City, Iowa Walla Walla, Wash Williston, N. Dak	18 14 15 17 8 5 14 14 9 9 6 86 6 88 1 5	Miles 60 71 66 60 51 51 55 52 55 50 53 50 50 50	s. se. se. se. n. n. nw. se. se. se. sw. se. nw. ne. nw. nw. nw. nw. nw. nw.

The resultant winds, as deduced from the personal observations made at 8 a. m. and 8 p. m., are given in Table IX. These latter resultants are also shown graphically on Chart derstorms. Pullman, Wash., windstorm. II, in connection with the isobars based on the same system

arrow shows the number of hours that this resultant prevailed, on the assumption that each of the morning and evening observations represents one hour's duration of a wind of average velocity; these figures (or the ratio between them and the total number of observations in this month) indicate the extent to which winds from different directions counterbalanced each other.

LOCAL STORMS.

Destructive or severe local storms were reported as follows: 1st.—Louisville, Ky., thunderstorm; stock killed by lightning. Boone County, Ky., Stamford, Nebr., Pendleton, Oreg., and over eastern portions of Washington, windstorms.

2d.—Tampa, Fla., thunderstorm. Melbourne, Fla., windstorm.

5th.—Abilene, El Paso, Sulphur Springs, Bluff Dale, Fort Bliss, and Waco, Tex., and Gila, N. Mex., windstorms. Winnsboro, Tex., windstorm; 1 person killed and several injured. Amarillo, Tex., snowstorm. Chilton, Tex., hailstorm. Meade and Garden City, Kans., snowstorms. Over the southern portion of Stanton County, Kans., windstorm; cattle killed. Buffalo, Okla., snowstorm; cattle killed. Manhattan, Kans., and Madrid, Iowa, thunderstorms.

6th.—Dodge City, Kans., snowstorm; cattle killed. Deer Trail, Colo., snowstorm.

Sth.—Washington, N. J., thunderstorm.

9th.—New Brunswick, Newton, and Junction, N. J., thunderstorms. Philadelphia, Pa., thunderstorm; 2 children killed by lightning. Seattle and Stillaguamish, Wash., thun-

10th.—Portland, Me., thunderstorm.